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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 3: <i>Advanced Technology Development (ATD)</i>				PE 0603444F: <i>MAUI SPACE SURVEILLANCE SYSTEM</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	36.582	5.899	13.555	-	13.555	13.927	14.445	14.973	15.522	Continuing	Continuing
634868: <i>Maui Space Surveillance System</i>	36.582	5.899	13.555	-	13.555	13.927	14.445	14.973	15.522	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program funds ground-based optical space situational awareness (SSA) technology development and demonstration at the Maui Space Surveillance System (MSSS) in Hawaii, as well as the operation and upgrade of the facility. Efforts in this program have been coordinated through the Reliance 21 process to harmonize efforts and eliminate duplication. This program is in Budget Activity 3, Advanced Technology Development, since it enables and demonstrates technologies for existing system upgrades and/or new system developments that have military utility and address warfighter needs.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	36.661	5.899	5.563	-	5.563
Current President's Budget	36.582	5.899	13.555	-	13.555
Total Adjustments	-0.079	-	7.992	-	7.992
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-0.002	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.077	-			
• Other Adjustments	-	-	7.992	-	7.992

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 634868: *Maui Space Surveillance System*

Congressional Add: *Panoramic Survey Telescope And Rapid Response System (Pan-STARRS).*

Congressional Add: *Flash Hyper-Dimensional Imaging System for Space Situational Awareness and Ballistic Missile Defense.*

Congressional Add Subtotals for Project: 634868

Congressional Add Totals for all Projects

FY 2010	FY 2011
9.461	-
1.992	-
11.453	-
11.453	-

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603444F: <i>MAUI SPACE SURVEILLANCE SYSTEM</i>	
<p><u>Change Summary Explanation</u></p> <p>Increase in funding in FY 2012 represents an increase in the Air Force priority for ground-based optical space situational awareness.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603444F: MAUI SPACE SURVEILLANCE SYSTEM				PROJECT 634868: Maui Space Surveillance System			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
634868: Maui Space Surveillance System	36.582	5.899	13.555	-	13.555	13.927	14.445	14.973	15.522	Continuing	Continuing
A. Mission Description and Budget Item Justification											
This program funds ground-based optical space situational awareness (SSA) technology development and demonstration at the Maui Space Surveillance System (MSSS) in Hawaii, as well as the operation and upgrade of the facility. Efforts in this program have been coordinated through the Reliance 21 process to harmonize efforts and eliminate duplication. This program is in Budget Activity 3, Advanced Technology Development, since it enables and demonstrates technologies for existing system upgrades and/or new system developments that have military utility and address warfighter needs.											
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Major Thrust 1/Congressional Add							25.129	5.899	13.555	-	13.555
Description: Develop, demonstrate, and integrate ground-based optical SSA technology at MSSS, as well as operate and upgrade the facility.											
FY 2010 Accomplishments: Refurbished and upgraded MSSS to accommodate SSA research and technology development and to maintain requirements for safety and security in accordance with Air Force regulations. Removed inoperable motor on 3.5 meter telescope. Developed and demonstrated ground-based optical SSA technologies. This effort includes Congressional Add of \$19.5 million in FY 2010.											
FY 2011 Plans: Refurbish and upgrade MSSS to accommodate SSA research and technology development and to maintain requirements for safety and security in accordance with Air Force regulations. Repair inoperable motor on 3.5 meter telescope. Develop and demonstrate ground-based optical SSA technologies.											
FY 2012 Base Plans: Refurbish and upgrade MSSS to accommodate SSA research and technology development and to maintain requirements for safety and security in accordance with Air Force regulations. Use 3.5 meter telescope to develop and demonstrate ground-based optical SSA technologies.											
FY 2012 OCO Plans:											
Accomplishments/Planned Programs Subtotals							25.129	5.899	13.555	-	13.555

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603444F: <i>MAUI SPACE SURVEILLANCE SYSTEM</i>	PROJECT 634868: <i>Maui Space Surveillance System</i>
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	FY 2010	FY 2011
<i>Congressional Add:</i> Panoramic Survey Telescope And Rapid Response System (Pan-STARRS). <i>FY 2010 Accomplishments:</i> Conducted Congressionally-directed effort. <i>FY 2011 Plans:</i>	9.461	-
<i>Congressional Add:</i> Flash Hyper-Dimensional Imaging System for Space Situational Awareness and Ballistic Missile Defense. <i>FY 2010 Accomplishments:</i> Conducted Congressionally-directed effort. <i>FY 2011 Plans:</i>	1.992	-
Congressional Adds Subtotals	11.453	-

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• Activity Not Provided: <i>Title Not Provided</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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